

BIBLIOGRAPHY ON PLANT PROTECTION IN INDIA



Compiled by

D.B. REDDY

PLANT PROTECTION SPECIALIST, EXTENSION DIRECTORATE

T. S. RAJAGOPALAN

CHIEF LIBRARIAN, INDIAN COUNCIL OF AGRICULTURAL RESEARCH

M. R. PANIKKAR

AGRICULTURAL OFFICER, INDIAN COUNCIL OF AGRICULTURAL RESEARCH

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Foreword

Plant protection is as old as Agriculture. When farming evolved through food-gathering, hunting and pastoral stages to stabilise in sedentary agriculture, the factors such as external and internal enemies of crops limiting the enterprise were also taken notice of. More often than not, pests and diseases particularly in sudden epidemics were considered as the outcome of divine displeasure. Evidences are not, at the same time, lacking that plant protection measures and that too in the form of fungicidal and insecticidal treatments were practised even in Vedic age and near about.

Plant protection in the modern sense of the term is, however, a later development. During the recent decades, several aspects of plant protection have made tremendous progress particularly in the wake of new findings in biological and chemical sciences. Improved tools and techniques in finding out plant maladies and the most effective way of remedying them have also opened up new horizons. Perhaps, this is one of the greatest contributions of modern science to humanity for conservation of natural resources.

Corresponding to the growing importance of the subject, the volume of literature pouring out of the researches is massive and continuous. While the existing techniques of plant protection are being sought to be perfected, stranger and more virulent enemies are also cropping up, calling for eternal vigilance and change of strategy and technique. The cycle goes on taxing the ingenuity of plant protection workers, resulting in a plethora of records of experiences and findings.

For an ardent student seeking information on a particular aspect of plant protection, this avalanche of literature would be a nightmare, unless he is helped and given guidance to the various sources of information. A classified bibliography, therefore, fulfils in a great measure this need. This bibliography on Plant Protection is fairly comprehensive in its coverage and refers only to the work done in India. About 2,500 documents are listed in the bibliography and the detailed classified sequence is its distinctive feature.

It has been the practice with us for some time now to bring out bibliographies during Conferences and Seminars. The present work is yet another attempt in this direction and Sarvashri Reddy, Rajagopalan and Panikkar deserve to be complimented for bringing out this useful bibliography.

J. S. PATEL

AGRICULTURAL COMMISSIONER

WITH THE GOVERNMENT OF INDIA

I.C.A.R. New Delhi

April 22, 1964

Introduction

The Indian Council of Agricultural Research is organising an All India Seminar on Plant Protection from the 22nd April 1964 to the 28th April 1964. On this occasion the Council is bringing out a bibliography on Plant Protection with reference to India.

Organised plant protection activity in our country, especially on field scale received impetus only after the World War II. Considerable amount of literature began to be published thereafter as would be evident from the listing in this bibliography of a very large number of entries published near about 1950 and onwards. The compilers had initially desired to attempt an exhaustive bibliography on the subject but some practical considerations have subsequently imposed on them to make the bibliography a selective one. The subject of Plant Protection deals with the diverse aspects such as the control of diseases, insect pests, weeds, deficiency diseases, weather hazards etc. and the volume of published literature on each of them is not equal and it was difficult to maintain a balance of coverage.

While most of the contributions on plant diseases, insects and other pests and weeds may touch upon control aspects as well, in this bibliography an attempt is made to list those articles wherein only a substantial portion dealt with practical and field control measures. Mostly those articles the titles of which clearly indicated that the control aspects were also dealt with have been included as it has not been possible to read every reference on the subject. In addition to periodical literature an attempt has been made to cover books, proceedings of conferences and

seminars, bulletins, leaflets, acts, standard specifications, etc.

The distinctive feature of this bibliography is the detailed classified listing of the entries. The table of contents indicates the scheme of classification followed. The earlier sections list references on plant protection problems in general which cover diseases caused by bacteria, viruses and fungi and insects and other pests, weeds, deficiency diseases etc. including their control. The latter sections list references dealing with specific crops. The crops have been broadly grouped on the basis of their utility. While in the ultimate class, the references are arranged alphabetically by the name of the authors, some deviations have been made at certain places to bring together references dealing with a particular disease or a pest. The references which are multifocal in their contents, i.e. dealing with more than one crop/malady/control measure could be entered only under one heading—the one in which the contribution deals with substantially. If some entries are not found under the headings sought, it may become necessary to refer to other possible headings under which such entries could be classed. However, it is hoped, that the classified presentation of entries will enhance the usefulness of the bibliography for finding out readily and with ease the published information on the different aspects of the subject of Plant Protection.

The compilers wish to record their grateful thanks to Dr. J. S. Patel, Agricultural Commissioner with the Government of India for encouragement.

New Delhi
April 22, 1964

D. B. Reddy
T. S. Rajagopalan
M. R. Panikkar

Contents

FOREWORD	iii
INTRODUCTION	v
DISEASE AND PEST—GENERAL	1
PLANT PROTECTION	1
General	1
India	1
States in India	2
CONTROL	
Cultural	3
Biological	3
Chemical	3
PESTICIDE	3
Use	4
Handling	4
Application, Spraying	4
Machinery for Application	4
Aircraft for Application	4
FUMIGANT	4
Fumigation	5
Seed Treatment	5
Legislation	5
Acts	5
DISEASE—CONTROL	6
General	6
Biological Agent	7
Cultural	7
Chemical	7
FUNGICIDE	7
Action	7
Testing and Evaluation	8
Bordeaux Mixture	8
ANTIBIOTICS	8
INSECT PEST	8

Termite	
Locust and Grasshopper	9
Polyphagous Insect	10
INSECT PEST CONTROL	11
General	11
Mechanical	11
Cultural	11
Biological	11
Chemical	12
INSECTICIDE	12
Inorganic	13
Organic	13
DDT	13
BHC	13
Others	13
Vegetable origin	14
Microbial	14
Testing and Evaluation	14
Application	15
Hazard	15
Toxicity, Residue and Bioassay	15
Phytotoxicity	16
Resistance to Insecticide	16
Integrated	16
NON-INSECT ANIMAL PEST	16
Millipede	16
Nematode	16
Earthworm	16
Snail and Slug	16
Bird	16
Rodent	17
Other Mammal	17
WEED	17
NOXIOUS WEED-GENERAL	18
Argemone	18
Bandha	18
Baisurai	18
Broomrape	18
Cuscuta	19

Eupatorium	19
Hariali	19
Kans	19
Lantana	20
Loranthus	20
Nutgrass	20
Pohli and Xanthium	21
Prickly pear	21
Striga	21
Water Hyacinth	21
Others	22
WEED CONTROL	22
Mechanical and Cultural	24
Biological	24
Chemical	24
2, 4-D	25
OTHERS	25
DEFICIENCY DISEASE	26
WEATHER HAZARD	26
GRAIN CROP	26
GRAIN STORAGE	26
Fumigation	26
Insect Proofing	27
Insect Control	27
Rat Control	28
RICE	28
Fungus Disease	28
Blast	29
Seed Treatment	29
Pest	29
Stem Borer	30
Gall Fly	31
Grasshopper	31
Rice Bug	31
Hispa	31
Non-Insect Animal Pest	32
Rat	32
Weed	32
Storage	33
Physiological Disease	33

Flood Damage	35
Salinity	33
WHEAT	33
Fungus Disease	33
Rust	33
Loose Smut	34
Seed Treatment	34
Nematode	34
Insect Pest	34
Weed	35
OAT	35
BARLEY	35
MAIZE	35
MILLET	36
Pest	36
Weed	37
Bajra	37
Ragi	37
Buckwheat, Amaranth, Chenopod	37
PULSES	37
Gram	37
PEST	38
Pigeonpea	38
Blackgram	38
Bean	38
Frenchbean	38
Clusterbean	38
Lablab	38
Pea	38
NUT	
Cashewnut	39
Walnut	39
FRUIT	
Disease	39
Pest	39
Weed	40
Storage	40
APPLE	40

CITRUS	40
Bacterial Disease	40
Fungus Disease	41
Pest	41
Deficiency	41
Weed	42
Storage	42
BANANA	42
Disease	42
Pest	42
Deficiency	42
Weather Hazard	42
MANGO	42
Fungus Disease	42
Malformation	43
Pest	43
Weed	44
Deficiency	44
GRAPE	44
GUAVA	44
FIG	44
BER	44
PINEAPPLE	44
PEAR	44
SOURCHERRY	45
STRAWBERRY	45
PEACH	45
LITCHI	45
PAPAYA	45
PERSIMON	45
SAPOTA	45
JAMBULANA	45
POMEGRANATE	45
VEGETABLE	45
Onion	46
Sweet Potato	46
Tapioca	46
Potato	46
VIRUS DISEASE	46

FUNGUS DISEASE	47
Blight	47
NEMATODE	47
PEST	47
WEED	48
STORAGE	48
Cauliflower	48
Cabbage	48
Brinjal	48
NEMATODE	49
PEST	49
WEED	49
Bhendi	49
PEST	49
Singhara	49
Pumpkin	50
Gourd	50
Tomato	50
NEMATODE	50
PEST	50
SUGARCANE	
VIRUS DISEASE	50
FUNGUS DISEASE	50
NEMATODE	51
PEST	51
CONTROL	51
Cultural	51
Biological	52
Chemical	52
MITE	52
TERMITE	52
GRASSHOPPER	53
BORER	53
PYRILLA	54
OTHERS	54
WEED	54
Chemical Control	55

BEVERAGE AND NARCOTICS	55
TEA	55
Fungus Disease	55
Nematode	56
Pest	56
Weed	56
TOBACCO	56
Disease	56
Nematode	56
Pest	56
Weed	57
COFFEE	57
Fungus Disease	57
Nematode	58
Pest	58
Phytotoxicity	58
Weed	58
Deficiency	58
OIL CROP	
GROUNDNUT	58
Disease	59
Pest	59
Weed	59
COCONUT	59
Virus Disease	60
Fungus Disease	60
Pest	60
Weed	61
SESAMUM	61
CASTOR	61
MUSTARD	61
Disease	61
Pest	61
Weed	61
SAFFLOWER	61
NIGER	62
LINSEED	62
SPICE AND DRUG PLANT	62
TURMERIC	62
BETELVINE	62

MINT	63
CORIANDER	63
CHILLIES	63
CUMIN	63
FENNEL	63
BLACK PEPPER	63
CARDAMOM	63
ARECANUT	64
Fungus Disease	64
Yellowleaf Disease	64
Pest	64
Non-Insect Animal Pest	64
Weed	64
LATEX YIELDING AND FIBRE CROP	65
RUBBER	65
Disease	65
Insect	65
Non-Insect Animal Pest	65
Weed	65
JUTE	65
SUNNHEMP	66
DECCAN HEMP	66
COTTON	66
Fumigation	66
Fungus Disease	66
Pest	67
Weed	69
Weather Hazard	69
ORNAMENTAL PLANT	69
GREEN MANURE CROP	69
AUTHOR INDEX	71

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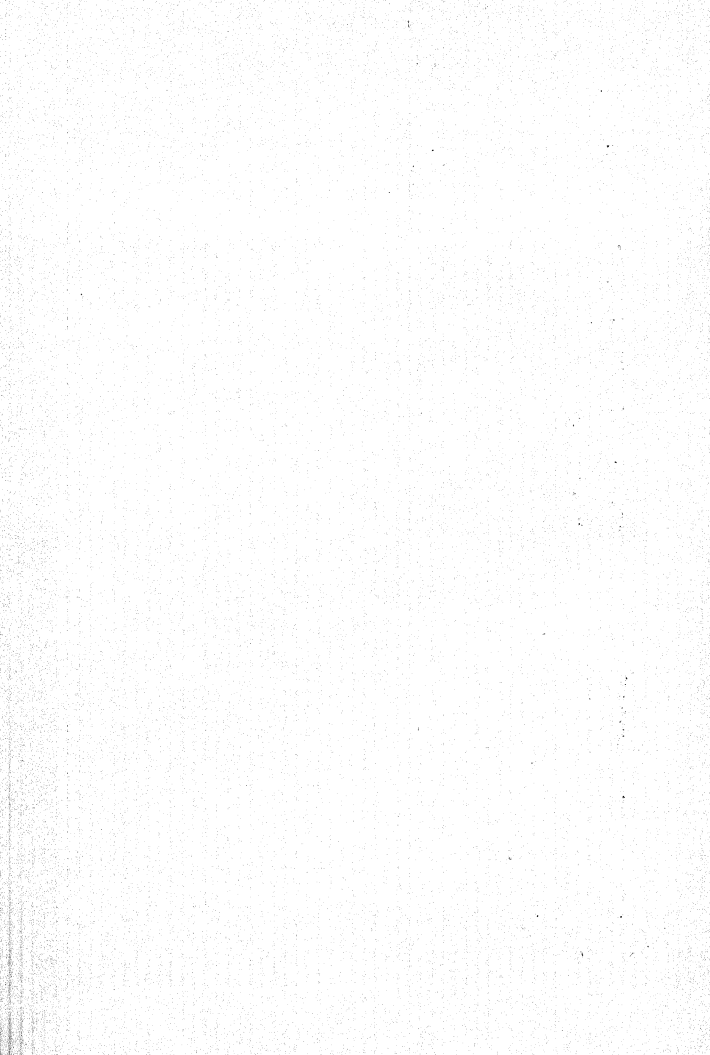
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Author Index*

- Abdulla—10,
Abdul Kareem (A) 53, 54
Abdul Rauf 24,
Abedi (ZH) 69
Abeygunawardena (DVW) 29
Abraham (EV) 10, 30, 32, 36, 39, 67, 68
Achutarao (K) 59
Addy (SK) 49
Adhate (SM) 48
Adlakha (PA) 17, 23
Adyantaya (NR) 6, 28, 29
Afzal Hussain (MD) 68, 69
Agarwal (JP) 20,
Agarwal (LN) 22
Agarwal (NS) 14, 17
Agarwal (PN) 14
Agarwal (RA) 15, 51, 52, 54
Agarwal (RK) 39, 40, 41
Agarwal (SBD) 8, 30, 34- 36, 52, 54
Agarwala (STD) 52
Agnihotrudu (B) 38
Agnihotrudu (V) 7
Ahmed (J) 51
Aiyappa (KM) 41
Albuquerque (SDS) 61
Ali (MH) 9
Alva (KR) 22
Ambastha (HNS) 17, 33
Ananthakrishnanan (NR) 12
Anantha Narayanan (KP) 2, 10, 13, 30, 43, 60, 65,
Anand (DH) 21
Anand (JC) 42
Anandan (AP) 59
Ananda Rao (S) 16, 56
Ananth (BR) 58
Ananth (KC) 57, 58

* Numerals against each entry refer to pages in which the references occur.

- Ananganath 52
 Annappan (RS) 67
 Anthony (J) 9, 15, 59, 60
 Appala Naidu (B) 20, 22, 24, 25, 32
 Appala Narasimham (P) 51
 Appanna (M) 3, 11, 13, 27, 31, 37, 44, 52, 58
 Apparao (P) 67
 Arakeri (HR) 20, 22, 24, 36, 48, 55
 Arjan Singh 34
 Arora (KS) 52
 Arvamudhan (P) 55
 Asana (RD) 22, 24
 Asthana (RP) 36, 62
 Atheya (SC) 63
 Atri (SP) 36, 38
 Atwal (AS) 9, 41, 43
 Atwal (DS) 37
 Avasthy (PN) 51, 52, 53, 54, 66
 Avtar Singh 67, 68
 Awasthi (GP) 9, 48
 Ayyangar (GMR) 67
 Ayyar (PNK) 68
 Ayyar (SR) 20
 Azariah (MD) 26, 47
 Aziz (MA) 13
- Babu Singh 6, 63
 Badli (SN) 10
 Bagal (SR) 46
 Bagwan Dass (M) 68
 Bahadur Singh 18, 69
 Bahel (SC) 3
 Bajpai (R) 17
 Bajpai (RN) 41
 Bakr Ahmed (M) 45
 Bakshi (TS) 27
 Balakrishnan Nair (R) 64
 Balu (V) 27, 28
 Banarjee (SN) 2, 13, 29, 30, 41, 49, 50, 53, 54, 58, 66, 68
 Bandhari (KC) 50
 Banerjee (G) 24
 Banerjee (S) 25, 31

- Bansal (UP) 55
 Bapkar (DG) 29
 Bapreddy 1, 3, 33
 Barooah (SR) 19
 Barua (HK) 21
 Barua (P) 21
 Barua (TW) 21
 Barucha (FR) 32
 Basak (M) 65, 66
 Basha (MG) 9, 44
 Basheer (M) 52, 53, 68, 69
 Basu (A) 30
 Basu (AC) 30, 63, 68
 Basu (AN) 13, 49
 Basu (NC) 21
 Basu (SK) 41
 Batra (AL) 44
 Batra (HN) 39, 40, 43, 45, 48, 50, 66, 69
 Bebraw (MA) 10
 Bederkar (VK) 69
 Bedi (BS) 62
 Bedi (KS) 3, 6, 28, 29, 33, 35, 37, 38, 40, 41, 46, 59, 62
 Bedi (PS) 39
 Behura (BK) 3
 Bener Raj 37
 Bera (BK) 30
 Beri (YP) 48
 Bessil (FW) 44
 Bhagwacar (PR) 7, 47
 Bhagwat (VY) 62
 Bhalerao (BG) 59
 Bhalla (OP) 40
 Bhambani (NJ) 27
 Bhan (VM) 20
 Bhandari (KG) 46
 Bhandari (PB) 63
 Bhargava (CBL) 19
 Bhargava (JC) 55
 Bhargava (KS) 6
 Bhargava (PN) 12
 Bhargava (SN) 44
 Bhamburkar (MW) 10

- Bhandary (KR) 50
 Bharadwaj (RBL) 18, 21, 23, 25, 27, 32, 35, 48, 55,
 Bhaskaran (R) 11
 Bhaskar Rao (C) 33
 Bhat (MV) 31
 Bhatia (DR) 9, 10
 Bhatia (GL) 61
 Bhatia (GN) 3
 Bhatia (SS) 15
 Bhatnagar (SP) 1
 Bhatt (JG) 69
 Bhattacharjee (N) 61
 Bhattacharjee (NS) 61
 Bhattacharya (KP) 7
 Bhattacharya (PK) 32
 Bhattacharya (SP) 66
 Bhide (VP) 37, 39, 62
 Bhoj (RL) 52
 Bhutani (DK) 50, 51, 54
 Bindra (OS) 19, 62
 Bisht (NS) 39
 Blackith (RE) 26
 Borle (MN) 16
 Bose (AK) 25
 Bose (JC) 21
 Bose (RD) 35, 38
 Bose (SK) 6, 22, 42, 45
 Bruhl Paul 22
 Bupendra Rai 18
 Burns (W) 20
 Butani (D) 36, 43, 50, 51, 54
 Butler (EJ) 6, 32

C

- Canon (RC) 44
 Capoor (SP) 25
 Chacko (PI) 25
 Chahal (DS) 38, 40, 43.
 Chalam (GV) 18
 Chandra (V) 22
 Chandra Singh (DJ) 20, 24, 69
 Chandwani (GH) 29
 Chandy (MG) 50

Chandy Kurian 59
 Channa Basavanna (GP) 11, 12, 38, 44, 54
 Chakravarthy (AK) 32
 Chakravarthy (AS) 55
 Chakravarthy (SC) 23
 Chandy (KC) 54
 Charan Singh 9
 Chatrath (JP) 39
 Chatterjee (BK) 50
 Chatterjee (BN) 17
 Chatterjee (NCH) 49
 Chatterjee (PB) 43, 63
 Chatterjee (PN)
 Chatterjee (R) 12
 Chatterjee (S) 27, 34, 38, 69
 Chattopadhyay (SB) 28, 29, 33, 45, 47
 Chaturvedi (PL) 41
 Chaudhury (DP) 31, 43
 Chaudhury (MS) 25, 52
 Chaudhury (RP) 12, 47
 Chaugule (BA) 17
 Chavan (AR) 19
 Chavan (VM) 32
 Chavan (VR) 22
 Cheema (PS) 53, 54
 Cherian (MC) 12, 14, 26, 43, 44, 45, 48, 60, 63, 68
 Cherkasiky (M) 67
 Chohan (JS) 44
 Chona (BL) 33, 50, 51
 Chopra (SC) 34
 Chotey Singh 11, 31, 68
 Chowdhury (A) 22
 Chowdhury (AN) 11, 39, 66
 Chowdhury (HC) 22
 Chowdhury (MK) 17
 Chowdhury (S) 2, 5, 6, 40, 41, 61, 62, 63
 Compere (H) 52
 Coomes (AV) 8

D

Dakshin Das (DG) 24
 Dakshina Murthy (V) 8
 Dalal (LH) 13

- Dalal (VB) 42
 Darbal (SW) 20
 Das (CS) 45
 Das (GM) 4, 56
 Das (GN) 8, 47, 56
 Das (GP) 38
 Dass (CM) 20
 Dass (K) 18, 25
 Dass (NC) 20
 Dastur (JF) 33, 62
 Dastur (RH) 67
 Datta (PC) 32
 Datta (SK) 23, 24
 Datta Gupta (AK) 15
 Dave (BB) 32
 David (N) 53
 Davis (TA) 59
 De (BN) 45
 De (RB) 21
 De (RK) 12, 27, 43, 69
 D'cruz (R) 21, 29, 32
 Decker (Ge) 1,
 De Jong (P) 4, 8, 24, 55, 56, 65
 De Quadros (AS) 33, 38
 Desai (MK) 42, 66
 Desai (MV) 43,
 Desmukh (NV) 21
 Desmukh (PS) 1
 Deshmukh (MJ) 47
 Deshpande (RB) 21
 Deshpande (SV) 16
 D'Souz (GJ) 58
 Dey (RK) 12
 Dey (SK) 59
 Dhande (GW) 34, 63
 Dhanya Sagar (VR) 17
 Dhar (AK) 25
 Dharamvir 35, 65
 Dharma Rajalu (E) 9, 68
 Dhawan (NL) 36
 Dhesi 22

Dhingra (DR) 13, 42
 Dhyan Chand (K) 22
 Dikshit (NN) 41
 Dorge (SK) 32
 Dubey (JK) 6
 Dulela (GG) 37
 Dunham (RS) 35
 Dutt (AK) 26, 35, 48
 Dutt (BL) 47
 Dutta (DK) 12, 43, 66
 Dutta (KA) 40, 42.
 Dutt (N) 66

E

Ebrahim Ali (SA) 17
 Edward (JC) 6
 Edward (JJD) 36
 Ekbote (RB) 19, 33
 Elhence (D) 16
 Elias (NA) 56
 Ethi Rajan (AS) 5
 Ezekial (M) 45

F

Fazullah Khan (F) 62
 F.scher (GEC) 20
 Fotidar (MR) 10, 14
 Fozdar (BS) 32

G

Gambir Singh (S) 21
 Ganesh (MK) 131
 Ganga Sagar 52
 Gangolly (SR) 42
 Ganguli (BN) 56, 66
 Ganguli (D) 28, 29, 63
 Ganguli (RN) 55, 66
 Garg (DE) 19
 Garg (DN) 6, 17
 Gattani (ML) 7, 8, 33, 35, 50
 Gaur (MM) 3
 Gee (EP) 17
 George (K) 22, 24, 25, 32, 55
 George (KV) 58
 George (PN) 26



- Gera (SID) 67
 Ghai (DO) 4, 6
 Ghadiok (GR) 26
 Ghatge (MB) 1,
 Ghattani (ML) 62, 63
 Ghosh (RLM) 28, 29, 32
 Ghosh (T) 65, 66
 Ghufran (SM) 51
 Giles (P) 26
 Girdhari Lal 50, 55
 Giri (S) 4
 Giri (VV) 59
 Glover (PM) 4
 Glover (RM) 56

 Goel (BK) 10
 Gogit (HS) 44
 Gokhale (VP) 33
 Gopakonar 69
 Gopalachar (NCP) 57
 Gopala Krishnan (J) 5
 Gopala Krishnan (R) 58
 Gopala Menon (ER) 1
 Gopala Raju (D) 8, 61
 Gopinathan Nair (R) 61
 Gosh (AK) 23, 33, 35
 Govindan (M) 5, 51
 Govinda Rao (P) 6, 7, 8, 18, 38, 40, 56
 Govinda Swamy (CU) 7, 29, 48, 63
 Govindu (HC) 46
 Gravelv (FH) 8
 Gregory (PG) 4, 59
 Grewal (JS) 33, 65
 Griffith (AL) 20
 Grover (RK) 33, 45
 Gundu Rao (H) 27
 Gupta (BP) 9, 36
 Gupta (BD) 48, 51, 52, 53, 54
 Gupta (DS) 9, 49
 Gupta (KM) 52

 Gupta (MU) 24
 Gupta (OP) 18, 54
 Gupta (RL) 2

Gupta (SC) 39
 Gupta (SL) 19
 Gupta (SN) 12
 Gurbaksh Singh 23
 Gurdas Singh 9
 Gurunath Rao (V) 44

H

Hadimani (AS) 23
 Hainsworth (E) 56
 Hall (WB) 39
 Hallee Panwar (NL) 62
 Harbajan Singh 26, 37, 54
 Harbans Singh (S) 54
 Harcharan Singh 27
 Hardas (MG) 17, 21, 23
 Hardial Singh 52
 Hari Kishore 47
 Harpal Singh 52
 Haq (A) 32
 Haque (MM) 61
 Harvey (MT) 12
 Hasan (SM) 42
 Hasanain (SZ) 34
 Hassan (MZ) 26
 Heath (ED) 55
 Hedge (RK) 37
 Hem Raj (B) 68
 Homewood (GS) 57
 Horsefall (JS) 7
 Howard (A) 19
 Howard (GLC) 19
 Hullati (BA) 27
 Husain (A) 61
 Hussain (MF) 19, 39
 Husain Afzal (M) 50
 Hutchinson (MT) 55

Ibrahim Ali 1
 Israel (P) 14, 15, 28, 29, 30, 31
 Issac (PV) 11
 Iyengar (MRS) 35

J

- Jacob (KT) 24
 Jagannatha Rao (E) 53
 Jain (AC) 5
 Jain (JS) 34
 Jain (SP) 46, 47
 Jain (SS) 36, 39, 40, 44, 45, 48
 Jaleel Ahmed (N) 51, 57
 Janaki (IP) 32
 Jarnail Singh 10
 Jaswant Singh 6
 Jatkar Kulkarni 13
 Jawanda (JS) 26
 Jayarajan (R) 63
 Jayaraman (V) 56
 Jeevanna Rao (PS) 20
 Jha (NC) 19
 Jha (NP) 52
 Joglekar (RG) 21
 John (CM) 22
 John (K) 32
 John Durai Raj (D) 42
 Jolley (CL) 11, 39
 Jones (S) 63, 64
 Josav (GS) 41
 Joseph (KV) 30
 Joshi (AB) 68
 Joshi (BG) 56, 57
 Joshi (BS) 49
 Joshi (KC) 3, 4, 7
 Joshi (KG) 17
 Joshi (LK) 34
 Joshi (LM) 33, 62
 Joshi (NC) 42, 50, 51, 63
 Joshi (NV) 66
 Joshi (PC) 33
 Joshi (SA) 1, 2
 Jotwani (MG) 10, 15, 36, 43, 49, 61, 68
 Juddeko (E) 56

K

- Kachni (LN) 22
 Kachroo (P) 19
 Kacker (PN) 13

Kadam (BS) 1, 56
Kadambi (K) 17, 20
Kaiwar (SR) 67
Kalamkar (RJ) 19, 33
Kalimuthu (M) 19
Kalla (BL) 17
Kallapur (K) 17
Kalra (AN) 44, 53, 54
Kalyana Raman (NP) 11
Kalayana Raman (VM) 52, 53
Kamat (MN) 6
Kamalakara Rao (C) 53
Kanak Raj David (S) 31, 38, 69
Kandaswamy (M) 56, 63, 67
Kandaswamy (TK) 62
Kanitkar (UK) 19
Kanwar (JS) 42
Kapoor (MS) 54
Kapoor (OP) 21
Kapur (AP) 11, 45, 64
Kapur (BB) 52
Kapur (NS) 48
Kapur (SN) 13
Kar (K) 50, 51
Karam Singh 37
Karanti Kumar 36
Karvick (CR) 32
Kashyap (VPS) 4
Katarki (NU) 17, 31, 68
Katghallimath (SS) 67
Kaul (RN) 1, 23, 25
Kaul (TN) 33, 50
Kaushik (BK) 20
Kenoyer (LA) 17
Kershaw (KL) 6, 65
Khan (AH) 11
Khan (AR) 67
Khan (AW) 39, 40
Khan (MA) 35
Khan (MC) 53
Khan (MQ) 12, 27, 30, 36, 38, 54, 67
Khan (NH) 69

- Khan (RM) 48
 Khanna (KL) 50, 52
 Khanna (PP) 49
 Khanna (SS) 16
 Khare (BP) 27
 Khushal Singh (S) 1
 Kidavu Koya (PIK) 17
 King (K) 44
 Kirchner (MJ) 1
 Kirpal Singh (HC) 43
 Kirtikar 50, 51
 Krishan Kumar 69
 Kishan Singh 51
 Kishore (H) 46
 Koshy (T) 13
 Kotiswara Rao (D) 8, 38
 Kotiswara Rao (M) 49, 63
 Krishna Menon 47
 Krishna Murthy (B) 3, 13, 16, 27
 Krishna Murthy (C) 8, 31, 41, 49, 51, 52, 53, 68
 Krishna Murthy (CS) 19
 Krishna Murthy (D) 62
 Krishna Murthy (PS) 20
 Krishna Murthy (S) 17, 24, 25, 26, 63
 Krishna Murthy Rao (BA) 31, 51, 54
 Krishna Rao (P) 2
 Krishna Swamy (S) 11, 12, 37, 39
 Kulkarni (HL) 1, 11, 14, 17, 27, 31, 43, 63, 67
 Kulkarni (LG) 59
 Kulkarni (KR) 54
 Kulkarni (NB) 29
 Kulkarni (NP) 4
 Kulkarni (SB) 13
 Kulkarni (US) 19
 Kulkarni (YS) 34, 67
 Kumar (K) 10
 Kumar (LSS) 18, 20, 21, 23, 24, 37
 Kumar (S) 42
 Kumararaja (K) 39
 Kumara Swami (T) 37, 47
 Kundu (BC) 65, 66
 Kunhi Kannan Nambiar (K) 20
 Kurien (C) 4, 11, 12, 15, 16, 50, 60, 64

Kurup (AR) 56, 57
 Kushawaha (KS) 36, 40
 Kuspe (VS) 17, 59
 Kylasam (MS) 14, 63

L

Lakshmanan (A) 40
 Lal (BS) 38, 46, 48, 68
 Lal (DSU) 17
 Lal (KB) 1, 3, 4, 5, 8, 9, 16, 40, 48, 68
 Lal (R) 48
 Lal (SP) 29, 58
 Lal (TB) 5, 40
 Lal Mohan (LB) 20
 Lal Singh (S) 21
 Lamba (PS) 20, 25
 Latif (MH) 43
 Laxmi Narayana (V) 5, 12
 Laxmi Narayana Bhatta (K) 14
 Leela David 11, 12, 46, 49
 Lefroy (HM) 8, 11
 Lele (VC) 62
 Luthra (JC) 18, 23, 34, 37, 51, 54

M

McRae 67
 Mahadevan (V) 30
 Mahadik (CN) 62
 Maheswariah (BM) 12, 13, 44
 Mahes Babu 23
 Mahto (J) 53
 Maini (NS) 61
 Maiti (RK) 32
 Majid (S) 2
 Majumdar (SK) 14, 15, 26, 27, 38, 43, 46
 Malhotra (CP) 11
 Malick (PC) 42, 43, 44
 Man (VS) 50
 Mani (MS) 41
 Mani (TF) 31
 Mani (VS) 18, 42
 Manjaian (HN) 53
 Mann (NN) 55
 Manocha (BD) 10

- Margabandhu (V) 68
 Mariakulandai (A) 42
 Mariappan (V) 37
 Marudarajan (D) 4, 6, 18, 46
 Maryanan (HN) 53
 Mathen (K) 59
 Mathew (AP) 17
 Mathrani (DI) 56
 Mathur (M) 46, 48
 Mathur (PB) 40, 46, 48
 Mathur (PS) 55
 Mathur (RL) 17, 23
 Mathur (RS) 5, 34, 36, 39, 44, 46, 59, 62
 Mathur (SC) 6, 36, 59
 Mathur (VK) 12
 Mayne (WW) 17, 57, 58
 Meenakshi Sundarm (D) 19, 22, 25
 Mehrotra (HN) 7
 Mehta (BV) 44
 Mehta (KC) 26, 33
 Mehta (PR) 4, 6, 19, 24, 33, 34, 35, 46
 Mehta (S) 55
 Menon (KPV) 9, 15, 19, 60
 Menon (KP) 64
 Menon (SK) 8
 Merh (JL) 62
 Mhatre (JR) 12
 Mirhamid Ali 49
 Mishra (J) 6
 Misra (AP) 6, 22, 24, 29, 33, 42, 46, 49
 Misra (DK) 37
 Misra (DP) 62
 Misra (G) 18, 22
 Misra (M) 34
 Misra (viP) 12
 Misra (MK) 23, 35
 Misra (VN) 35
 Mital (VP) 9
 Mitra (AK) 24, 45
 Mitta (E) 25
 Mitta (M) 35
 Mitra (N) 55

Mitra (NN) 32
 Mitra (PK) 8
 Mohammad Ali (S) 54
 Mohammed Ibrahim (PA) 61
 Mohana Sundaram (M) 37
 Mohan Das (N) 64
 Mohan Rao (NV) 53
 Mohan Rao (KR) 12, 53
 Mohan Singh 5, 28
 Mohanty (UN) 1
 Mookerjee (AL) 41, 54
 Mookerjee (PB) 14, 15, 16, 27, 52
 Moolani (MK) 24
 Moniz (L) 40
 Moorthy (LN) 69
 Moulder (D) 56
 Mokhopadhyaya (SK) 35
 Mudaliar (CR) 13
 Mudaliar (VTS) 20
 Mukundan (TK) 16
 Mukerjee (DD) 8
 Mukerjee (SK) 17, 48, 51
 Mukerjee (SP) 41
 Mukerjee (TD) 4, 14, 55
 Mulder (D) 56
 Mundkur (BB) 5, 6, 35, 33
 Munjal (RL) 6, 69
 Muralia (RN) 6
 Murthy (DN) 3, 21, 30, 31, 32, 42, 66
 Murthy (SN) 17
 Muthu (M) 15, 43
 Muthu Krishnan (CR) 17
 Muthu Krishnan (TS) 11, 68, 69
 Muthu Swamy (R) 55

N

Nagaich (BB) 39
 Nagaraj (TR) 58
 Nagarajan (KR) 2, 10, 11, 28, 53
 Nagraja Rao (KR) 2, 4, 5, 12, 13, 14, 15, 36, 38, 40, 49, 62, 63, 69
 Nagaraj Rao (KS) 64
 Nagaraja Rao (PR) 30, 45
 Nagaraja Shetty (MV) 37

- Nagpal (RL) 41
 Nagur (T) 37
 Naha (PM) 29
 Naidu (AB) 25
 Naidu (BA) 37
 Naidu (GVB) 64
 Nair (MRGK) 30, 64
 Nair (PD) 21
 Nambiar (KKK) 67
 Nambiar (RR) 22
 Naqvi (SZH) 8
 Narasimhan (MJ) 18, 43, 57
 Narasimhan (R) 51
 Narasimha Murthy (BL) 21
 Narasimhaswamy (RL) 57, 58
 Narayana (AS) 19
 Narayana (KL) 30, 36, 69
 Narayanan (ES) 8, 11, 12, 27, 30, 40, 52, 59, 61, 22, 67
 Narayanan (G) 8
 Narayanan (TR) 19, 20, 22, 25
 Narayana Swamy (PS) 4, 26, 38, 50
 Nariani (TK) 43
 Narula (PN) 33, 63
 Nath (CR) 51, 54
 Nangpal (RD) 67
 Nazir (MM) 27
 Negi (NS) 50
 Negi (PS) 12
 Newman (JF) 19
 Nezamuddin (S) 23, 28, 35, 36
 Nigam (LN) 10, 40
 Nikam (BG) 6, 28, 41, 62
 Nilkalmi 55
 Nirula (KK) 9, 15, 47, 48, 49, 56
 Niwan (RS) 40, 41, 43, 45
- O
- Om Parkash 35
 Oppenheimer (CH) 44
- P
- Padhya (AC) 41
 Padmanabhan (MD) 10
 Padmanabhan (SY) 28, 29

Padmanabhan (V) 41
Padwick (GW) 6, 7, 25, 50, 51
Paharia (KD) 47
Pal (BP) 26, 33, 34
Pal (NL) 57
Pali (NS) 50
Pandalai (KM) 59
Pandate (SN) 22
Pande (HK) 35
Pandey (ND) 39
Pandotra (VR) 63
Pandya (MG) 18
Pandya (PS) 66
Panigrahi (BM) 18, 22
Panikkar (MR) 17, 23, 25, 33, 61
Pankajshamma (K), 4
Paracer (CS) 6, 38, 39, 40, 43, 62
Parameswaran Pillai (PR) 39
Parkhe (DP) 57
Parthasarathy (S) 58
Parthasaratay (SV) 52
Patel (GA) 3, 4, 10, 13, 31, 68
Patel (GC) 57
Patel (GJ) 64
Patel (HK) 16, 56, 68
Patel (JS) 65
Patel (KP) 43
Patel (MK) 3, 6, 7, 33, 34, 41, 43
Patel (NC) 68
Patel (RC) 43, 50, 56, 63, 68
Patel (RM) 13, 16, 50, 53, 56, 68
Patil (ND) 18
Patil (SS) 32, 35
Patil Kulkarni (BG) 51
Patwak (H) 36
Patwardhan (GB) 19, 20
Paugi (MS) 12
Paul (AK) 32
Paul (CF) 14
Paul (MD) 68
Paul (RK) 15
Pawar (FK) 41

- Pawar (JG) 49
 Peeran (SM) 57
 Peiris (JWL) 29
 Ferraju (A) 5, 30, 56, 60
 Perumal (K) 10
 Peswani (KM) 36
 Phadnis (NA) 42
 Phillip (A) 50, 56, 57
 Pillai (GB) 11, 12, 59, 60, 64
 Pillay (RA) 20
 Pingale (SV) 14, 15, 26, 27, 28, 40, 43, 46, 48
 Pitchayya (B) 42
 Ponnaiya (BWX) 36
 Ponnuswami (MK) 43
 Prabhakar Rao (V) 5, 46
 Pradhan (S) 4, 5, 8, 10, 12, 16, 28, 36, 43, 61, 69
 Pradyuman Singh (M) 42
 Prakash Sarup 15, 34, 36, 49
 Pramanik (LM) 53, 55
 Prasad (A) 19
 Prasad (AR) 9, 53
 Prasad (D) 43
 Prasad (LK) 48
 Prasad (N) 1, 57
 Prasad (R) 33, 35, 55
 Prasad (RN) 54
 Prasad (SK) 49, 50
 Prasad (SN) 53, 54
 Prasad (VN) 20
 Prasanna Kumar (TO) 60
 Primrose (C) 58
 Pritam Singh Deol 53
 Priyamvatha Rao (SB) 37, 67
 Procter (CC) 1
 Pruthi (HS) 5, 10, 11, 16, 26, 28, 40, 41, 57
 Pushkarnath 47
 Puttarudriah (M) 1, 3, 11, 12, 14, 16, 25, 28, 30, 31, 36, 38, 39, 43, 45, 51,
 58, 63, 64, 69

Q

- Quadiruddin Khan (M) 2, 17

R

- Radha (CK) 60

Radha (NV) 61
Radhakrishna Murthy (B) 56
Radhakrishna Pillay (PN) 63
Radhamenon 64
Raghava Rao (N) 14
Raghunadha Rao (N) 38
Rahaman (A) 28
Rahaman (F) 35
Rahaman (KA) 5, 28, 36, 40, 43, 48, 52, 54
Raheja (PC) 38
Rahudkar (WB) 18, 21, 23
Rai (BK) 10, 43, 52, 61
Rai (L) 26, 27
Rai (RP) 47
Raina (JL) 10
Raj (BR) 23
Rajgopalan (GK) 17, 20
Rajagopalan (K) 29
Rajan (BSV) 3
Rajan (MRD) 41
Rajan (SS) 61
Rajan (SV) 63
Rajani (VA) 51, 52, 54
Rajaroo (SA) 12, 31, 58
Rajput (RK) 39
Rajaratnam (S) 20
Rajaverma (MC) 7
Rajpaye (NK) 33,
Raju (RN) 11
Rakshpal (R) 4, 41.
Ram (KB) 43
Ram (SK) 43
Rama (TP) 60
Ramachandra Chari (C) 41, 52, 53
Ramachandra Iyer (S) 52
Ramachandra Rao (Y) 10, 31, 60
Ramachandran (CP) 15, 60
Ramachandran (S) 2, 11, 13, 14, 30, 31, 46, 68
Ram Gopal 46
Ramakrishana Ayyar (TV) 8, 11
Ramakrishnan (C) 38

Ramakrishnan (K) 63
 Ramakrishnan (S) 1
 Ramakrishnan (TS) 44, 65
 Rama Murthy (K) 3, 12
 Raman (KR) 44
 Ramanandha Rao (P) 63
 Ramanjan (S) 46
 Ramanjaneyulu (S) 22
 Rama Rao (G) 25
 Rama Rao (M) 41
 Rama subbiah (K) 38
 Ramesh Chander 12
 Ramiah (AR) 69
 Ramiah (RV) 32
 Ramiah (V) 48
 Ram Nath 29
 Ram Nath (G) 58
 Ramnath Rao (H) 13
 Ram Pal Singh 10
 Ranade (SB) 20
 Ranga Ayyar (G) 64
 Rangashetty (NT) 58
 Rangaswamy (G) 3, 7, 8, 29, 40, 46, 69
 Rao (BKP) 4
 Rao (D) 19
 Rao (DS) 26, 27
 Rao (GN) 51
 Rao (JP) 22, 32
 Rao (J) 18 53
 Rao (JT) 5
 Rao (MSS) 50
 Rao (MVV) 21, 23, 24
 Rao (NVL) 18
 Rao (PG) 1
 Rao (PVR) 1
 Rao (SN) 40, 64
 Rao (V) 39
 Rao (VP) 4, 5, 15
 Rao (VR) 69
 Rao (VT) 1
 Rao (YR) 21
 Raout (GD) 31
 Ratan Lal 8, 10, 15, 27, 44, 48, 52 57

Ratcliffe (FAC) 58, 68
 Rathore (VS) 62
 Ratnam (LV) 35
 Rauf (A) 17
 Ravindranath (V) 18
 Rawat (RR) 16
 Rawther (TSS) 59
 Raychaudhuri (SP) 44, 46, 53
 Rayner (RW) 58
 Reddy (DB) 1, 2, 4, 5, 8, 9, 10, 17, 21, 22, 23, 26, 28, 33, 34, 35, 36, 37, 38,
 39, 42, 45, 46, 47, 48, 50, 68
 Reddy (GS) 43
 Rehman (F) 23
 Renjhen (PL) 5, 43, 68
 Raudkhar (WB) 37
 Rich (S) 7
 Richards (PB) 67, 68
 Richharia (RH) 35
 Ritchie (JH) 19
 Richter (CP) 28
 Robinson (JBD) 26, 58
 Roonwal (ML) 9
 Roy (AK) 46
 Roy (CS) 16
 Roy (RS) 43, 45
 Roy (RY) 7
 Roy (SC) 40
 Roychowdhuri (K) 45
 Rusden (PL) 69

S

Sabet (KA) 35
 Sabnis (SD) 19
 Sadasivan (TS) 7, 29, 67
 Sada sivan Pillai (KK) 60
 Sadik (HG) 51
 Saha (JC) 5, 55
 Sahadevan (PC) 22
 Sahani (VN) 67
 Sahare (KC) 62
 Sahasranamam (KN) 60
 Saini (BS) 46
 Saini (HR) 23

- Sakaram Rao (J) 19, 20
 Salim Ali 44
 Salimath (SS) 19, 32
 Sana (JC) 55
 Sandhu (JS) 50, 52, 54
 Sane (PV) 68
 Sangal (PM) 22
 Sangameswara Sarma (S) 62
 Sanghi (PM) 49
 Sanjiva Rao (B) 8
 Sankaran (T) 9, 68
 Sanne Gowdha (S) 45
 Sant (MV) 22, 33
 Santanaraman (T) 17, 31
 Sanwal (KC) 16
 Saptharshi (K) 26
 Sarangapani (MV) 26, 46
 Saraswati Devi (L) 67
 Sarcar (PB) 65, 66
 Sardar Singh 8, 9, 10, 31, 46, 47, 61
 Sarid (JN) 26
 Sarma (K) 42
 Sarman (KC) 55, 56
 Sarojini Damodaran (AP) 7
 Sarup (P) 69
 Sashi Kanta 52
 Sashi Kanta Rai (BK) 44
 Sastri (KSK) 18
 Sathyanarayana (P) 4, 13, 15, 16
 Satpathy (JM) 15, 46, 68
 Sattar (A) 34, 37
 Sawant (AR) 7
 Sawhney (PL) 13
 Saxena (AP) 53
 Saxena (DK) 62
 Saxena (HK) 3
 Saxena (HP) 30, 31, 53
 Saxena (JS) 12
 Saxena (MP) 50
 Seethalavmi (V) 20
 Sekhar (PS) 64
 Selvaraj (CJ) 2, 61
 Sen (AB) 7, 12

Sen (AC) 16, 25, 30, 31, 34, 40, 43, 45, 48
Sen (AR) 55
Sen (DL) 66
Sen (DW) 19
Sen (SC) 55
Sen (SN) 11
Sen Gupta 3
Sen Gupta (AK) 12
Sen Gupta (GC) 13, 31
Sen Gupta (JN) 19
Sen Gupta (PK) 8, 40, 47
Sen Gupta (SK) 51
Seshadri (AR) 32, 47
Seshadri (TR) 13
Seshagiri Rao (D) 13, 14, 16, 17, 26, 28, 31, 46, 51, 54
Seshagiri Rao (T) 33
Seshagiri Rao (Y) 15, 30, 31
Seth (JN) 18, 44
Seth (ML) 43
Sethi (BL) 23
Shah (SA) 50
Sham Sunder (M) 43
Shanmugam (N) 10, 37
Shanta (P) 60
Sharma (AR) 22
Sharma (BB) 69
Sharma (BS) 25
Sharma (C) 36
Sharma (DC) 46
Sharma (DK) 6, 19
Sharma (GS) 28
Sharma (JC) 40
Sharma (MN) 51
Sharma (PL) 10, 40
Sharma (SL) 22, 26, 35, 47, 52
Sharma (SR) 25
Sharples (A) 65
Shashi Kanta Rai (BK) 15
Shashi Prabha Lal 37
Shaw (AW) 25
Shaw (FJF) 19
Shende (CB) 52

- Shendge (PY) 29
 Shenge (CB) 52
 Sheriar (KC) 19
 Sherde Singh 48
 Sheriff (M) 53
 Shivapuri (TN) 18, 23, 25
 Shrivastava (BK) 1
 Shrivastava (PD) 10, 14
 Shrivastava (RP) 15
 Shukla (TN) 62
 Shukla (VN) 3
 Shuman (F) 34
 Siddiqi (MS) 40
 Siddiqui (AA) 68
 Siddiqui (MR) 67
 Siddiqui (S) 14
 Siddiqui (ZA) 52, 53, 54
 Sidhu (AS) 54
 Sidhu (HS) 61
 Sikka (C) 62
 Sikka (SM) 36
 Simha (CP) 48
 Simha (M) 40
 Simha (RP) 62
 Singh (B) 48
 Singh (BB) 41
 Singh (BM) 31, 39, 43
 Singh (BN) 18, 25, 26
 Singh (D) 51, 52, 54
 Singh (DN) 18, 21
 Singh (DP) 26
 Singh (DR) 51
 Singh (G) 32
 Singh (GP) 12
 Singh (H) 54
 Singh (HB) 49
 Singh (HN) 20, 21, 43, 55
 Singh (JR) 42
 Singh (K) 18, 38, 67
 Singh (LB) 42, 43, 44
 Singh (M) 10
 Singh (MP) 2, 44

- Singh (OP) 52
 Singh (RB) 23
 Singh (RD) 35
 Singh (RN) 45
 Singh (RP) 52, 54, 55
 Singh RR) 39
 Singh (RS) 49
 Singh (S) 4, 32, 49
 Singh (SK) 39
 Singh (SM) 43, 44
 Singh (TCN) 19
 Singh (UB) 6, 40, 45
 Sinha (MM) 10
 Sinha (RP) 23, 34, 36
 Sinha (SSP) 17
 Sirdhana (BS) 5
 Sivarama Krishniah (M) 37
 Sivarao (DV) 54
 Sivasankara Sastry (KS) 52
 Smith (ROA) 7
 Smith Herbert (D) 41
 Sodhi (GS) 44
 Sohi (HS) 47
 Sohi (SGS) 28, 31, 46
 Solomon (S) 23, 24
 Somasekhar (P) 58
 Sontaky (KR) 26, 41
 Sreeramulu (C) 37
 Sreeramulu (T) 42
 Srikantiya (M) 6, 60
 Srinivasan (AR) 18, 21, 25
 Srinivasan (KM) 24, 25
 Srinivasan (KV) 50, 51
 Srinivasan (MV) 39, 40, 69,
 Srinivasan (NR) 22
 Srinivasan (PA) 8
 Srinivasan (PM) 49, 50
 Srinivasan (R) 25
 Srivastava (AS) 9, 10, 16, 30, 31, 36, 38, 39, 40, 44, 49, 54, 66, 67
 Srivastava (BK) 14, 16, 34, 36, 48, 51, 67
 Srivastava (BP) 15, 49

Srivastava (DD) 50, 57
 Srivastava (DN) 69
 Srivastava (GP) 12
 Srivastava (HC) 40
 Srivastava (HML) 4, 15
 Srivastava (JC) 52
 Srivastava (MG) 32
 Srivastava (MMP) 48
 Srivastava (OP) 8
 Srivastava (RN) 6, 23
 Srivastava (RP) 15, 42, 43
 Srivastava (RS) 15
 Srivastava (SNS) 27, 47, 65
 Srivastava (TN) 25
 Srivastava (YP) 31
 Stephen (RC) 26
 Subbiah (J) 7
 Subbiah (MS) 63, 64
 Subbiah Pillai (M) 28, 30 33
 Subbarao (BR) 52
 Subba Rao (NV) 7
 Subha Rao (A) 42
 Subha Reddy (P) 37
 Subramoney (S) 33
 Subramaniam (CL) 18, 47, 57
 Subramaniam (CV) 33
 Subramaniam (H) 46, 48
 Subramaniam (ICS) 62
 Subramaniam (LS) 50
 Subramaniam (P) 37
 Subramaniam (S) 38
 Subramaniam (TR) 10, 68, 69
 Subramaniam (TV) 14, 21, 54
 Subramaniam (V) 28, 29
 Subramaniam (VK) 12, 58, 66
 Sudha Rao (V) 11
 Sulaiman (M) 4
 Sulaiman Varasi (M) 41
 Summanwar (AS) 62
 Sundaram (NV) 44, 62, 63, 67
 Sundaram (S) 58
 Sunderam (CV) 48
 Sunder Raj (DD) 24

Sundrababu (PC) 44
 Sunilkumar 53
 Suryanarayana (D) 19, 29, 36, 37, 45, 58
 Suryanarayana (S) 29
 Swaminathan (B) 58
 Swaminathan (NP) 11
 Swarup (C) 59

T

Tabliani (BD) 16
 Tadulingham (C) 9, 18, 21, 23, 25
 Tale (YM) 49
 Talgeri (GM) 11, 31, 44
 Tambe (GC) 20
 Tamhane (RV) 20
 Tamhane (VA) 20
 Tandon (IN) 35, 45
 Tandon (RK) 18
 Tandon (RN) 41, 44
 Taslim (M) 34
 Teotia (TPS) 11, 13, 51, 52
 Tewfik (M) 45
 Thakare (KR) 38, 49
 Thakur (C) 9, 18, 21, 23, 25, 53, 54, 55.
 Thakur (DP) 42
 Thangavelu (TK) 2
 Thurumalachar (MJ) 43, 46
 Thirumala Rao (V) 1, 5, 11, 12, 16, 17, 30, 32, 40, 49, 60, 62, 63, 69
 Thobbi (VV) 31, 32
 Thomas (CA) 60
 Thomas (KM) 25, 29, 51, 58
 Thomas (PM) 26, 27, 28
 Thyaga Rajan (NM) 20
 Tidkee (PM) 68
 Tikar (DT) 38
 Timmons (FL) 23, 25
 Tiwari (MM) 51
 Tiwary (NP) 32
 Trehan (KN) 1, 3, 10, 11, 12, 17, 28, 36, 46, 62, 69
 Tripathi (BB) 20
 Tripathi (RL) 14, 61, 66
 Turner 66
 Tyagi (BP) 18

U

Umat (DS) 55
 Upadhyaya (YM) 33
 Uppal (BN) 44
 Urs (NVR) 46
 Usman (S) 11, 16, 30
 Uttaman (P) 21, 32

V

Vachhani (MV) 25, 32
 Vaheduddin (S) 25, 27, 34, 36, 37, 38, 46
 Vaidyanathan (R) 17
 Valsala (PG) 64
 Varadarajan (BS) 65
 Varasi (MS) 25, 46
 Varatha Rajan (G) 30
 Varma (HS) 50
 Varma (BK) 4, 16, 50, 60
 Varma (PM) 42, 46, 49, 63
 Varma (SS) 59
 Vasantaraj David (B) 36, 37, 44, 61
 Vasudevan (CK) 58
 Vashisht (KS) 39
 Vasudeva (RS) 1, 6, 7, 33, 34, 35, 36, 44, 47, 58, 61, 62, 66
 Vasudeva Menon (PP) 36, 49
 Vaugh (M) 20
 Veda Moorthy (G) 14, 15, 30
 Venkata Narayana (G) 18
 Venkata Ram (CS) 8, 56
 Venkataraman (J) 51
 Venkataraman (N) 68
 Venkataraman (T) 53
 Venkataraman (T8) 21 23
 Venkataraman (TV) 12, 36, 52, 60
 Venkataramani (KS) 22, 25, 55, 56, 65
 Venkatarao (A) 62
 Venkataratnam (L) 25, 48
 Venkatakrishnan (NS) 29
 Venkatarayan (SV) 1, 57
 Venkatarreddi (J) 67
 Venkatasubban (CS) 60
 Venketesh (MV) 5, 14, 40, 66

Verma (RD) 18, 21, 23, 25, 32, 35, 39, 48, 55
Verma (SS) 20, 35
Veal (EI) 13
Vijaya Kumar 37
Vijaya Lakshmi (U) 51
Vijaya Raghavan (S) 36, 59
Virdi (SS) 23
Visser (T) 56
Voelcker (JA) 19, 23
Von Burren (WL) 18

W

Wadhi (SR) 45
Wakankar (SM) 21
Wankhede (NP) 69
Watt (G) 55
Wesley (WK) 46, 49
Westrop (AR) 56
Wilson (KI) 67
Wrigby (G) 65

Z

Zachariah (PK) 33